

CLAIMS

1. Monolithic optical component (400) comprising:
a light-absorbing layer (7),
5 a waveguide (2) coupled evanescently with the said light-absorbing layer (7), such waveguide having one end coupled with an input facet (12) of the component to receive an input wave,
the component (400) being characterized in that the input face (12) is convex (13).
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2. Optical component (400) according to claim 1, characterized in that the input face (12) has the shape (13) of a cylindrical diopter with generators perpendicular to the plane of the light-absorbing layer (7).
- 15 3. Optical component (400) according to claim 2, characterized in that the radius of curvature of the cylindrical diopter is of the order of 20 μm .
4. Optical component (400) according to one of claims 1 to 3, characterized in that it comprises a photodiode (6) incorporating the light-absorbing layer (7).
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5. Optical component (400) according to one of claims 1 to 4, characterized in that the waveguide (2) is a diluted waveguide.
6. Optical component (400) according to one of claims 1 to 5, characterized in
25 that the waveguide (2) comprises at least:
a first InP layer (403),
an InGaAsP layer (404) deposited on the first InP layer,
a second InP (405) layer deposited on the InGaAsP layer.